

TITLE: STRINGED INSTRUMENT PICK GRIP

I. CROSS REFERENCE TO RELATED APPLICATIONS

This application is a Nonprovisional Application of U.S. Patent Application No. 5 60/462,665 filed on April 14, 2003, the contents of which are hereby incorporated by reference in their entirety.

II. BACKGROUND OF THE INVENTION

A. Field of the Invention

10 The present invention relates to picks for stringed instruments of virtually any type, and in particular, a grip apparatus, method, and system to improve a user's grip of such picks.

B. Problems in the Art

15 A variety of stringed instruments are played with a pick. Some picks are planar, relatively small members approximately 1 inch wide and 1 inch in length and fraction of an inch thick. One portion of the pick is usually tapered to a general point. These picks have some resiliency, but are substantially rigid. The pick's opposite flat sides are gripped between the fingers of one hand (e.g. thumb and fore finger). Such picks are well known in the art, and are typically called "flat picks". Another type of stringed instrument pick is commonly called a finger pick. It has a hooked distal end and receiver for an individual finger. A set of finger 20 picks for a user's hand are usually used. This invention applies primarily to the former type of pick, the flat pick.

25 As used herein, the term "pick" refers to any type of stringed instrument pick that is gripped by or between, or applied to, or mounted on fingers unless otherwise indicated. Such a pick (e.g. somewhat resilient, rigid, and durable) usually has hard, non-porous surfaces. And essentially the surfaces are smooth. Because of this, such a pick can slide or slip on or between the user's fingers. This is especially true if perspiration, oil, or other substances get onto the pick. Of course, slippage can affect play of the instrument, and indeed, performance. But also, the relatively small size of such picks can result in loss of the pick or dropping it to the ground which, at a minimum, can cause interruption of play or worse. On non-solid body

instruments, picks are sometimes dropped and fall inside the instrument. For these reasons, many players, particularly during public performances, have to carry multiple picks in case one is dropped or lost.

I have therefore identified a need for improvement in the art. A general object, feature, 5 advantage, or aspect of the present invention is a device, a system, and a method for making the same, that can improve grip of a stringed instrument pick. Further objects, features, advantages or aspects of the invention include a device which:

1. does not materially affect the nature or characteristics of the pick.
2. is economical to make and purchase.
- 10 3. does not substantially change the dimensions of a conventional pick.
4. is durable.
5. can be mass-produced.
6. is easy to use.
7. is easy to implement, including retrofitting existing picks and essentially 15 integrating into them.
8. can promote improved playing of the instrument.
9. is flexible and useable with a variety of styles of picks.

Guitar players and other stringed instrument players have long tried various things to be able to hold onto their picks more efficiently. Losing the grip on the pick while playing 20 compromises the player's ability as well as tone of their playing. Various flat picks with raised bumps or ridges, or holes in them have been tried. There is a tacky paste ("Gorilla Snot" trade name, for example) that can be rubbed on to the pick as well. There is not, to my knowledge or searching, any simple, non-messy, inexpensive device that can be used with existing picks.

As mentioned, the problem was addressed in the past by trying such things as (a) 25 various pick materials, such as plastic, metal, stone, etc., (b) raised ridges on pick surface, (c) a hole in the pick, or (d) by a tacky paste in a jar that can be rubbed onto pick (Gorilla Snot TM). Alternatively or in addition, players would have multiple picks in pick holder on the instrument or microphone stand so they could quickly obtain another pick when they dropped

the one they were using. Most ideas for improving grip involved having to buy another pick to try to get a better grip so existing picks would not be used or thrown away.

Some attempts to address either this exact problem in the art, or try to improve picks for other reasons, are disclosed in several patents. However, it is not believed that any of these 5 attempts provide features, advantages, or aspects of the present invention.

U.S. patent 4,137,814 discloses a palm piece attached to the user's hand with a flexible member (e.g. a chain) to the pick.

U.S. patent 4,993,302 discloses a soft, flexible piece that is adhesively attached to a side of a conventional pick. It also discloses that an adhesive is spread over the soft flexible 10 member once adhered to the pick to provide extra tackiness to improve the grip.

U.S. patent 5,341,715 discloses raised ledges at acute angles on a side of the pick for assistance in gripping.

U.S. patent 6,054,643 discloses a curved portion making a finger cradle to improve the ergonomic characteristics of a pick. It alleges less gripping pressure is needed to hold onto the 15 pick, and that this is possible by the 3-dimentional characteristics of the curved portion or finger cradle.

U.S. patent 6,130,374 discloses cavities in a frustoconical, 3-dimentional pick with angled tips and grooves.

U.S. patent 6,417,431 discloses protrusions and a beveled region to improve grip.

20 Despite all these attempts, it is believed that room for improvement exists in the art.

III. SUMMARY OF THE INVENTION

My invention is inexpensive, and can be placed on any existing pick. Experimental playing with the device by professional musicians has resulted in them reporting a great 25 improvement in their playability as well as confidence in that they report this is the best gripping device they have ever tried and they can use it on their favorite picks they already own. They have described an improvement in their playing of 10% to 15%.

The present invention relates in one aspect to an apparatus for application to a gripping portion on a first surface of a stringed instrument pick, the apparatus comprising a thin piece of material promoting gripping by human fingers.

Additional objects, features, advantages, and aspects of the invention will become 5 more apparent with reference to the accompanying specification and claims, including appended drawings.

IV. BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is an enlarged perspective illustration of an exemplary embodiment of the 10 invention installed on a conventional stringed instrument pick.

Figure 2 is a reduced in size version of Figure 1 showing the exemplary embodiment of the invention of Figure 1 in exploded form relative to a conventional pick.

Figure 3 is a top plan view of a mold used in forming one or more of the exemplary embodiments shown in Figures 1 and 2.

15 Figure 4 is a sectional view of just the mold of Figure 3, taken along line 4-4 of Figure 3.

Figure 5 is similar to Figure 2 but shows an alternative exemplary embodiment of the invention with grip member attachable to both sides of the pick.

20 V. DETAILED DESCRIPTION OF EXEMPLARY EMBODIMENTS

For a better understanding of the invention, one form the invention can take will now be described in detail. This description is for illustration only and not to limit the invention. Variations obvious to those skilled in the art will be included with in the invention.

25 Reference will be taken to the accompanying drawings which were previously summarized. Reference numbers will be used to indicate certain parts and locations in the drawings. The same reference numbers and letters will be used to indicate the same parts and locations throughout the drawings unless otherwise indicated.

Figures 1 and 2 illustrate a conventional stringed instrument flat pick 12. This type of pick is illustrated in several of the U.S. patents discussed in the background of the invention.

The disclosures of such patents are incorporated by reference herein in their entirety, as background information. Figure 1 illustrates grip 10 installed on a generally flat, planar surface of pick 14.

This grip 10 is a thin, rubber-type device in the shape of the upper half of a stringed instrument pick 12 (the part gripped by fingers and thumb). One side 19 of device 10 is very smooth, which is the side that is adhered to the pick surface 16 (one side of pick 12). One side 18 is slightly rough for gripping with your finger(s) and/or thumb. The device 10 may be placed on one side (See FIG. 1) or both sides of the pick 12 (see Figure 5 - a device 10A on one gripping portion of a first side or surface of pick 12, and a second device 10B on a 10 gripping portion of a second side of pick 12).

The device 10 can be made from liquid silicon or liquid plastic or liquid latex, similar to Toymax plasticgoop for Creepy Crawlers, which is molded. Other materials are, of course, possible. The mold 30 (See FIG. 3) can be made from steel or similarly hard non-stick material capable of withstanding repeated heat of temperatures up to 700°F. The mold 30 is 15 one-sided (not injection) such that there is a shallow depression 32 in the steel (0.6mm to 1.0mm) in the general shape of a trapezoid with rounded corners at the widest point (See FIG. 3). There can be a small oval depression 24 (see also Figure 4) in the center of this that is approximately 0.01mm to 0.03mm deeper so that the resulting device 10 has a slight raised portion. This can be optional to produce enhanced texture or gripping. The depression 32 is 20 26.5mm wide at its widest point and 18mm in length. This allows for a large gripping area that can later be modified by the player if desired. The bottom face of each depression 32 of mold 30 can be slightly roughened or mottled to form the side 18 of the device for gripping. Liquid material as described above is poured into the mold 30 and allowed to level. This top or exposed side forms the smooth surface 19 of the device for adherence to the pick (this is why 25 injection molding may not be as good, it does not allow for as smooth a surface for adhering to the pick surface without slipping). The mold 30 is placed into a heated area (oven or kiln) at 475° for eight minutes and then allowed to cool at room temperature, 66° to 75°F, for four to six minutes. Heating time and temperature may be varied, but this is optimum.

Device 10 adheres to the pick 12 by the natural tackiness of the device, the ultra light weight of the device, and cohesive frictional forces and/or surface tension. The pick grip 10 can be removed and re-adhered multiple times to different picks 12, placed on one or both sides of the pick 12 and even stacked more than one thick, if desired. The device 10 is roughly 5 large enough to cover about 60% of a standard size pick 12, but can be trimmed or modified with standard household scissors to the player's desired size. It can be applied to virtually all known pick materials on the market as well as future materials. Device 10 can be varied in thickness from 0.6mm to 1.0mm based on volume of liquid material poured into mold 30.

It can therefore be seen that grip 10 can be made in mass-produced form of economical 10 material. It utilizes surface tension and other properties of the material to adhere to the side of pick 12. However, it can be easily removed and stored in a user's pocket. It, therefore, can be reused or removed and replaced. It can also be retrofitted onto any number of existing picks.

Furthermore, it does not change the essential nature of the conventional pick 12. It does not substantially change its dimensional shape. It also does not substantially change its 15 functional operation.

As can be appreciated, therefore, advantages of my invention include that it is inexpensive, it can be used with existing picks, and it can improve playing and confidence over existing devices in that the player can customize it to their particular pick and playing preferences. Existing picks with integrated gripping devices require the player to hold the pick 20 where the grip is integrated into the pick and not necessarily where the player prefers.

Use of this device is for professional and hobby, as well as beginner stringed instrument players. It will let them grip their pick without fear of slipping or dropping it, thereby letting them concentrate on the playing. They may use the device in the position they choose to hold the pick and not a pre-designed position.

25 Options and Alternatives

It will be appreciated that the foregoing exemplary embodiment is but one way the invention can be made and embodied. Variations in shape, dimensions, materials, and manufacturing methods are included within the invention. The invention includes basic characteristics of an economical, reasonably durable, mass-producible device that materially

increases grippability of the pick. As mentioned, it could be applied to one side of the pick. Alternatively, two grips can be placed on grip 12, one on each side.

It is possible that the same concept could be utilized for other types of picks, and perhaps even finger picks, to deter sliding of the finger pick on the finger.

5 And, of course, larger scale, mass-production could be utilized such as are well known in the art. Figure 4 illustrates up to four devices 10 can be molded simultaneously. Larger scale molds (for larger simultaneous molding of multiple device 10) are possible. Other production methods are possible.

10 It is not necessarily required that there be any sort of texturing of the outer surface of grip 10 or the oval-shaped projection be used. It can be produced by various methods.

Still further, the ability to remove grip 10 includes the advantage that once removed, there is no residue or remnant of grip 10 left on pick 12. Pick 12 returns to essentially its original form.